

February 8, 2023

VIA HAND DELIVERY & ELECTRONIC MAIL

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

**RE: Docket No. 22-54-NG – The Narragansett Electric Company
Proposed Fiscal Year 2024 Gas Infrastructure, Safety, and Reliability Plan
Responses to Division Data Requests – Division Set 3 (Complete Set)**

Dear Ms. Massaro:

I have enclosed an electronic version of Rhode Island Energy's¹ complete set of responses to the Division's Third Set of Data Requests in the above-referenced matter.² The Division has withdrawn DIV 3-9 in light of information provided in the Company's responses to other data requests.

Thank you for your attention to this matter. If you have any questions, please contact me at 401-316-7429.

Very truly yours,



Jennifer Brooks Hutchinson

Enclosure

cc: Docket 22-54-NG Service List
Leo Wold, Esq.
John Bell, Division
Al Mancini, Division

¹ The Narragansett Electric Company d/b/a Rhode Island Energy ("Rhode Island Energy" or the "Company").

² Per communication from Commission counsel on October 4, 2021, the Company is submitting an electronic version of this filing followed by six (6) hard copies filed with the Clerk within 24 hours of the electronic filing.

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate were electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.

Heidi J. Seddon

February 8, 2023

Date

No. 22-54-NG- RI Energy’s Gas Infrastructure, Safety and Reliability (ISR) Plan 2024 - Service List 2/6/2023

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The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-54-NG
In Re: Proposed FY 2024 Gas Infrastructure, Safety and Reliability Plan
Responses to the Division's Third Set of Data Requests
Issued on January 11, 2023

Division 3-1

Request:

For each month for the period January 1, 2019 through December 31, 2022, please provide by size and type of meter:

- a. The number of new meters installed by rate class in each month;
- b. The number of existing meters replaced by rate class in each month;
- c. The number of meters refurbished by month in each month;
- d. The number of meters retired from service by month in each month; and
- e. The number of meters in inventory at the end of each month.

Response:

The Division of Public Utilities and Carriers withdrew this data request on January 23, 2023, in light the Public Utilities Commission's ruling at its Open Meeting on January 20, 2023.

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-54-NG
In Re: Proposed FY 2024 Gas Infrastructure, Safety and Reliability Plan
Responses to the Division's Third Set of Data Requests
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Division 3-2

Request:

Please provide the Company's projected inventory of meters at the end of CY 2024 by size and type of meter.

Response:

The Division of Public Utilities and Carriers withdrew this data request on January 23, 2023, in light the Public Utilities Commission's ruling at its Open Meeting on January 20, 2023.

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-54-NG
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Division 3-3

Request:

Please provide the expected useful lives for the Company's existing meters by size and type of meter.

Response:

The Division of Public Utilities and Carriers withdrew this data request on January 23, 2023, in light the Public Utilities Commission's ruling at its Open Meeting on January 20, 2023.

Division 3-4

Request:

Please document and explain any differences in the times to obtain delivery of purchased meters by size and type of meter over the last 36 months.

Response:

Over the past 36 months, the lingering effects of the COVID-19 pandemic on industry and resulting supply chain problems have increased lead times for gas meter and Encoder Receiver Transmitters (“ERT”) orders from the Company’s major suppliers. These suppliers identify semiconductor shortages and labor as their primary obstacles. During July of calendar year (“CY”) 2021, one major supplier of 250-, 400-, 600-, and 1000-class meters, issued a memo notifying its major customers, including National Grid USA (“National Grid”), that they should expect delays in their shipping dates, which reflected labor and material shortages at the supplier. The supply chain issues began affecting another major supplier of residential meters, as well as the supplier of ERT modules required in the assembly of meters.

In late CY 2021 and early CY 2022, National Grid, and then Rhode Island Energy placed its purchase orders for the meters it would require in fiscal year (“FY”) 2023. During CY 2022 and through early CY 2023, the delivery dates of purchase orders with all manufacturers were frequently delayed due to labor and material shortages. Some long-standing orders have been placed on hold without any new shipping update offered, due to the manufacturers’ uncertainty in their own manufacturing capacity. Continuing volatility in the meter manufacturers’ delivery schedules indicates these problems have not been resolved despite assurances from each manufacturer that they are working towards a solution.

A significant portion of gas meter and ERT orders placed in early January of CY 2022 for FY 2023 were delayed by the manufacturers over the course of the year as material and labor issues intensified. On average, delayed 250-class meter shipments have arrived or are currently scheduled to arrive 189 days after the ship date requested by National Grid on behalf of Rhode Island Energy, and 371 days after the initial placement of the purchase order. Larger meter classes including the 400-, 600-, and 1000- classes are experiencing delays of about 5 months beyond the requested delivery date. Similarly, delayed 275-class meters are scheduled to arrive an average of 332 days after the requested ship date and 540 days after the placement of the purchase order. These lengthy delivery times are a departure from prior years, where meter shipments could generally be expected to arrive when the manufacturer promised. Until the manufacturers become confident in their ability to produce and ship meters, they are reluctant to issue firm shipping schedules, so it is likely the issue will continue into the foreseeable future.

Division 3-5

Request:

Regarding all projects within the Reliability section of the Plan, please provide a simplified table containing each project, its cost per year, and its estimated in-service date ranked in order of highest priority to lowest priority.

Response:

Please see Attachment DIV 3-5, for a project list by category. Each category lists projects in the order by which they are planned to be completed in FY 2024. Some categories anticipate reactive work which has yet to be identified or determined. In these instances, the project or category budget is listed as to-be-determined ("TBD").

There are often several factors that determine the order in which projects will be completed, starting with highest prioritization for safety and reliability. However, the order in which projects commence or how many projects are ongoing at once is also influenced by circumstances such as work readiness, the ability to permit the project, resource availability, and the funding/affordability to customers. The Company continually reviews all such factors to determine which project or projects should start next. Additionally, because there may be specified reasons for each category within the Reliability section and different pools of resources, the Company has provided a project list by category, rather than combining them all into a single Reliability category list.

Reliability Categories

System Automation

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>101 Dyer St @ Pine St</i>	<i>Providence</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 74</i>
<i>289 Point St @ Beacon Av</i>	<i>Providence</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 95</i>
<i>642 Allens Ave</i>	<i>Providence</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 130</i>
<i>518 Hartford Ave @ Petteys Ave</i>	<i>Providence</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 90</i>
<i>71 Memorial Blvd @ Anna Dr</i>	<i>Newport</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 92</i>
<i>135 Old Mill Ln 55#</i>	<i>Portsmouth</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 44</i>
<i>70 Allendale Av @ George Waterman Av</i>	<i>Johnston</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 99</i>
<i>300 Niantic Ave @ Pawnee St</i>	<i>Providence</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 78</i>
<i>Edgar Ct Endpoint</i>	<i>Newport</i>	<i>Install System Automation</i>	<i>FY24</i>	<i>\$ 90</i>
<i>System Automation Total</i>				<i>\$ 792</i>

Reliability Categories

Heater Installation Program

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Dey St GS (27 Dey St)</i>	<i>E Providence</i>	<i>Replace Heater</i>	<i>FY24</i>	\$ 2,550
<i>Smithfield GS (347 Putnam Pike)</i>	<i>Smithfield</i>	<i>Replace Heating System</i>	<i>FY24</i>	\$ 1,950
<i>Diamond Hill GS (4317 Diamond Hill Rd)</i>	<i>Cumberland</i>	<i>Replace Heating System</i>	<i>FY25</i>	\$ 300
<i>Miscellaneous Heater Upgrades</i>	<i>Portsmouth</i>	<i>Replace Fuel Train</i>	<i>FY25</i>	\$ 56
<i>Miscellaneous Heater Upgrades</i>	<i>Lincoln</i>	<i>Replace Fuel Train</i>	<i>FY25</i>	\$ 25
<i>Miscellaneous Heater Upgrades</i>	<i>Burrville</i>	<i>Replace Fuel Train</i>	<i>FY25</i>	\$ 25
<i>Miscellaneous Heater Upgrades</i>	<i>Providence</i>	<i>Purchase BMS</i>	<i>FY25</i>	\$ 100
<i>Heater Installation Program Total</i>				\$ 5,006

Reliability Categories

Heaters Replacement and Ownership Transfer

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Tiverton GS (400 Main Rd)</i>	<i>Tiverton</i>	<i>Replace Take Station</i>	<i>FY24</i>	\$ 190
<i>Heaters Replacement and Ownership Transfer Total</i>				\$ 190

Reliability Categories

Take Station Refurbishment

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Smithfield GS (347 Putnam Pike) Phase 1</i>	<i>Smithfield</i>	<i>Replace 35 PSIG Station</i>	<i>FY24</i>	\$ 839
<i>Smithfield GS (347 Putnam Pike) Phase 2</i>	<i>Smithfield</i>	<i>Replace 99 PSIG Station</i>	<i>FY25</i>	\$ 100
<i>Miscellaneous Take Station Enhancement</i>	<i>All</i>	<i>Odorization and Generator upgrades</i>	<i>FY24</i>	\$ 225
<i>Take Station Refurbishment Total</i>				\$ 1,164

Reliability Categories

Pressure Regulating Facilities

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
Park Av @ Maple Av	Cranston	Replace Station	FY24	\$ 950
Smith St @ Sunset Av	North Providence	Replace Station	FY24	\$ 850
Mendon Rd @ Nate Whipple Hwy #1	Cumberland	Replace Station	FY24	\$ 600
Station St @ Pond St	Cranston	Replace Station	FY24	\$ 850
337 Lonsdale Av	Pawtucket	Replace Station	FY24	\$ 850
Wellington St @ Thames St LP	Newport	Replace Station	FY25	\$ 45
Weeden St @ Smithfield Av	Pawtucket	Replace Station	FY25	\$ 30
New River Rd @ Cottage St	Lincoln	Replace Station	FY25	\$ 30
Mendon Rd @ Nate Whipple Hwy #2	Cumberland	Replace Station	FY25	\$ 60
110 Atwood Av @ D St	Cranston	Replace Station	FY25	\$ 250
235 Promenade St @ Kingsley Av	Providence	Abandon Station	FY25	\$ 45
Post Rd @ 265 Byron Blvd	Warwick	Abandon Station	FY25	\$ -
Walcott Av @ St Georges	Middletown	Abandon Station	FY25	\$ -
1584 Plainfield St @ Plainfield Pk	Cranston	Replace Station	FY25	\$ 250
Wellington St @ Thames St 40 PSIG	Newport	Replace Station	FY25	\$ 125
3362 Kingstown Rd (Waites Corner)	North Kingstown	Install Bypass Valve	FY24	\$ 50
Mayfield Rd @ Oakland Av	Cranston	Install Bypass Valve	FY24	\$ 50
Dyer St @ Pine St	Providence	Install Bypass Valve	FY24	\$ 40
Stony Ln @ Rt 2	North Kingstown	Install Bypass Valve	FY25	\$ 25
259 Wamp Tr @ Boyd Av	East Providence	Install Bypass Valve	FY25	\$ 25
228 Carroll Av @ Ocean Dr	Newport	Install Bypass Valve	FY25	\$ 25
71 Corina St @ Glasgow St	Providence	Install Bypass Valve	FY25	\$ 50
Pressure Regulating Facilities Total				\$ 5,200

Reliability Categories

Valve Installation/Replacement - Primary Valve Program & Aquidneck Island Low Pressure Valves

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Champlin @ Rhode Island Ave 6"</i>	<i>NPR</i>	<i>primary valve install</i>	<i>FY24</i>	\$ 20
<i>Thames St @ W Narragansett 12"</i>	<i>NPR</i>	<i>primary valve install</i>	<i>FY24</i>	\$ 24
<i>Thames St @ Washington 12"</i>	<i>NPR</i>	<i>primary valve install</i>	<i>FY24</i>	\$ 23
<i>Thames St @ Brewer 16"</i>	<i>NPR</i>	<i>primary valve install</i>	<i>FY24</i>	\$ 539
<i>Valve Installation/Replacement Total</i>				\$ 606

Reliability Categories

Gas System Reliability

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>163-200 Sunbury St LP-35#</i>	<i>PVD</i>	<i>LP Elimination</i>	<i>FY24</i>	\$ 136
<i>LNC Old River Rd, Manville (LP-99)</i>	<i>LNC</i>	<i>Single Feed Elimination</i>	<i>FY24</i>	\$ 667
<i>LNC Beverly Dr (LP-99)</i>	<i>LNC</i>	<i>LP Elimination</i>	<i>FY25</i>	\$ 318
<i>NPV 1-26 Borah St (LP-to-60)</i>	<i>NPV</i>	<i>LP Elimination</i>	<i>FY25</i>	\$ 15
<i>WSO Diamond Hill Rd-Dewey St (60)</i>	<i>WSO</i>	<i>LP Elimination</i>	<i>FY25</i>	\$ 30
<i>WWK East Av/Bald Hill Rd SFE</i>	<i>WWK</i>	<i>Single Feed Elimination</i>	<i>FY24</i>	\$ 700
<i>Cannon St CRA</i>	<i>CRA</i>	<i>Single Feed Elimination</i>	<i>FY24</i>	\$ 654
<i>NPR (10-to-35) P1-3</i>	<i>NPT</i>	<i>System Integration</i>	<i>FY25</i>	\$ 10
<i>Gas System Reliability Total</i>				\$ 2,530

Reliability Categories

I&R

I&R - Reactive

Location	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Portsmouth Gate Odorizer</i>	<i>Portsmouth</i>	<i>Reactive Work</i>	<i>FY24</i>	\$ 76
<i>TBD – Reactive Work</i>	<i>TBD</i>	<i>Reactive Work</i>	<i>FY24</i>	\$ 1,326
<i>I&R - Reactive Total</i>				\$ 1,402

Reliability Categories

Distribution Station Over Pressure Protection

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>101 North Broadway @ Greenwood Av</i>	<i>East Providence</i>	<i>Install Control Lines Header</i>	<i>FY24</i>	<i>\$ 275</i>
<i>18 Maple @ Yarnell Ave</i>	<i>Middletown</i>	<i>Install Control Lines Header</i>	<i>FY24</i>	<i>\$ 385</i>
<i>888 Wellington Ave @ Well Ave</i>	<i>Cranston</i>	<i>Install Control Lines Header</i>	<i>FY24</i>	<i>\$ 275</i>
<i>22 Depot Ave @ Cranston St</i>	<i>Cranston</i>	<i>Install Control Lines Header</i>	<i>FY24</i>	<i>\$ 400</i>
<i>Asylum St @ Mason St</i>	<i>Woonsocket</i>	<i>Install Control Lines</i>	<i>FY24</i>	<i>\$ 136</i>
<i>Charles St @ Mineral Spring Ave</i>	<i>North Providence</i>	<i>Install Control Lines Header</i>	<i>FY24</i>	<i>\$ 375</i>
<i>Moshassuck St @ Main St</i>	<i>Pawtucket</i>	<i>Install Control Lines Header</i>	<i>FY24</i>	<i>\$ 274</i>
<i>642 Allens Ave</i>	<i>Providence</i>	<i>Install Relief Valve</i>		<i>\$ -</i>
<i>Control Line Header 1</i>	<i>TBD</i>	<i>Install Control Lines Header</i>	<i>FY25</i>	<i>\$ 150</i>
<i>Control Line Header 2</i>	<i>TBD</i>	<i>Install Control Lines Header</i>	<i>FY25</i>	<i>\$ 150</i>
<i>Distribution Station Over Pressure Protection Total</i>				<i>\$ 2,420</i>

Reliability Categories

LNG

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
LNG - OML Portable Equipment	Middletown/Portsmouth	Portable Equipment	FY26	\$ 2,511
LNG - Cumberland Supplemental Portable Storage	Cumberland	Portable Equipment	FY25	\$ 875
LNG - Exeter Boiloff Compressor 2 Upgrade	Exeter	Boiloff Compressor Upgrade	FY24	\$ 7,474
LNG - Cumberland LNG Water Main	Cumberland	Water Main Installation	FY24	\$ 750
LNG - Exeter HMI Hardware & Software Upgrade	Exeter	Hardware & Software Upgrade	FY24	\$ 28
LNG - Exeter Control Room Upgrade with Offices, Backup Gas Control, Bathrooms/Showers, Attached Shop	Exeter	Control Room Upgrade	FY25	\$ 1,111
LNG - Exeter Truck Station Upgrade with plant AESD Upgrade	Exeter	Truck Station Upgrade	FY26	\$ 500
LNG - Cumberland Portable Vaporizer Tap	Cumberland	Portable Equipment Infrastructure	FY24	\$ 400
LNG - Exeter Emergency Generator Upgrade & UPS	Exeter	Site Upgrade	FY25	\$ 78
LNG - Exeter LNG Septic Upgrade	Exeter	Site Upgrade	FY24	\$ 875
LNG - Exeter Critical Spares	Exeter	Critical Spares	FY24/FY25	\$ 113
LNG - Cumberland Critical Spares	Cumberland	Critical Spares	FY24/FY25	\$ 113
LNG - Cumberland BOG Recovery Manifold	Cumberland	Portable Equipment Infrastructure	FY24	\$ 250
LNG - Newport Navy Yard Site	Newport	Demo / Retirement	FY26	\$ 281
LNG - Exeter Tank Switchback Stairs	Exeter	Safety	FY25	\$ 333
LNG - Blanket	All Locations	Blanket	FY24/FY25	\$ 572
LNG - Exeter Hi Ex Foam System	Exeter	Hi Ex Foam System	FY24	\$ 50
LNG - Cumberland Portable LNG Equipment	Cumberland	Portable Equipment	FY24	\$ 6
LNG Total				\$ 16,319

Reliability Categories

Replace Pipe on Bridges

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Mineral Spring Av, N Providence</i>	<i>N Providence</i>	<i>Main Replacement on bridge</i>	<i>FY24</i>	\$ 600
<i>Sylvan Dr Bridge main abandonment, E Greenwich</i>	<i>E Greenwich</i>	<i>Main Abandonment and Main extension</i>	<i>FY24</i>	\$ 200
<i>Lonsdale Ave Bridge, PAW</i>	<i>Pawtucket</i>	<i>Main Replacement on bridge</i>	<i>FY24</i>	\$ 260
<i>Atwells Av Bridge, Providence</i>	<i>Providence</i>	<i>Main Abandonment</i>	<i>FY24</i>	\$ 140
<i>Goat Island Bridge, Newport</i>	<i>Newport</i>	<i>Main Replacement on bridge</i>	<i>FY25</i>	\$ 50
<i>Glenbridge Ave Bridge, Providence</i>	<i>Providence</i>	<i>Main Relocation on bridge</i>	<i>FY25</i>	\$ 50
<i>River St Bridge, Woonsocket</i>	<i>Woonsocket</i>	<i>Abutment Wall</i>	<i>FY25</i>	\$ 50
<i>Replace Pipe on Bridges Total</i>				\$ 1,350

Reliability Categories

Access Protection Remediation

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Schooner Dr, Tiverton (BTIV-0001)</i>	<i>Tiverton</i>	<i>Install Access Protection Barrier</i>	<i>FY24</i>	\$ 20
<i>Esmond Mill Dr, Smithfield (SMF-0012)</i>	<i>Smithfield</i>	<i>Install Access Protection Barrier</i>	<i>FY24</i>	\$ 20
<i>Great Rd, Union Village Railroad Bridge, N Smithfield (BNSF-0003)</i>	<i>N Smithfield</i>	<i>Install Access Protection Barrier</i>	<i>FY24</i>	\$ 20
<i>Access Protection Remediation Total</i>				\$ 60

Reliability Categories

T&E

Tools & Equipment

Project Name	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>TD Williamson Pro-stop</i>	<i>N/A</i>	<i>Equipment Purchase</i>	<i>FY24</i>	\$ 522
<i>Ground Penetrating Radar - GPR</i>	<i>N/A</i>	<i>Equipment Purchase</i>	<i>FY24</i>	\$ 67
<i>Meter Testing Equipment</i>	<i>N/A</i>	<i>Equipment Purchase</i>	<i>FY24</i>	\$ 110
<i>TBD - General Capital Tools & Equipment</i>	<i>N/A</i>	<i>Equipment Purchase</i>	<i>FY24</i>	\$ 918
<i>Tools & Equipment Total</i>				\$ 1,617

Reliability Categories

Weld Shop

Location	Town	Project Type	In Service Year	FY 2024 12-Month (\$000)
<i>Allens Ave</i>	<i>Providence</i>	<i>Facility</i>	<i>FY24</i>	\$ 8,860
<i>Weld Shop Total</i>				\$ 8,860

Division 3-6

Request:

The Company has informed the Division that it is in the process of completing a data scrub of its gas pipe infrastructure and will be implementing a new software system for its gas distribution system. Provide the following:

- a. Name and description of the new software;
- b. Date of implementation of the new software; and
- c. How is the Company addressing inconsistencies within the current data system?
Please explain.

Response:

- a.) The new software being implemented is a product of JANA Corporation. It is called "Lighthouse Distribution Integrity Management Platform." This software evaluates the Company's assets and assigns predefined risk units to each based upon various operating factors such as leak history, material, age, etc. to determine a Probability of Failure ("PoF"). Furthermore, the software evaluates the Consequence of Failure ("CoF") by evaluating the health and safety impacts, economic loss, regulatory / corporate reputational impacts and environmental impacts. The total risk is calculated by multiplying the PoF x CoF. This is used to identify the riskiest assets within the system as well as grouping assets to identify areas where the Company could maximize its risk elimination by focusing on neighborhoods or regions for replacement.
- b.) The new software is currently scheduled for deployment in October 2023.
- c.) The Company is addressing inconsistencies by working directly with the vendor to create default rules to apply when specific information is missing. An example of a rule developed was to address missing polyethylene pipe information. By providing a history of the pipe types used by the legacy gas companies in Rhode Island, by date, size, and type, if a section of pipe from a specific town, date, and size is flagged in the asset database, the algorithm built into the risk model can perform a comparison to the table and extract the missing information.

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Division 3-7

Request:

Regarding DR 1-8, please clarify what led to the length of main installed being lower than length of main abandoned. Is this due to rerouting, or something else? Please explain.

Response:

The three phases of the Middletown low pressure elimination project have a total of approximately 22,600 feet of main installation, and an abandonment of 22,805 feet of main. The 205 foot difference in main is due to not requiring the mains to be extended as far to the services at extremities. There is a 99# main already installed in Wolcott Avenue, Briarwood Avenue, and other side streets that have parallel low pressure mains. Transferring the services from the low pressure mains to the 99# mains will allow the abandonment of these low pressure mains without the need for additional new main installation.

Please note that these numbers are approximate lengths of proposed main, so the 205 foot discrepancy could be even less when the mains are installed.

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Division 3-8

Request:

Regarding the \$7,100 cost per service provided in DR 1-24, please identify primary cost drivers for the increase.

Response:

The \$7,100 unit cost stated in the Company's response to Division 1-24 was derived using a simple formula that divided the partial year total accumulated costs by the number of units completed as of the date of the response. This unit cost included spending on restoration for services completed in the previous year. Therefore, the partial year unit cost, along with restoration costs associated with previous fiscal year service replacement, was skewed higher than the long term average.

The Company is proposing a Proactive Service Replacement budget of \$0.559 million for the FY 2024 (12-month) period for a target of 100 service replacements. The unit cost in this budget proposal is \$5,590 and is based upon the average unit costs for all Proactive Service Replacements from FY 2021 to present when incorporating all costs associated with the service replacement and final restoration.

In Re: Proposed FY 2024 Gas Infrastructure, Safety and Reliability Plan
Responses to the Division's Third Set of Data Requests
Issued on January 11, 2023

Division 3-10

Request:

Regarding the proposed Weld Shop facility, please describe non-ISR related work (if any) that the Company expects to occur at this facility.

Response:

The Company's main operations objective for the Weld Shop facility is to support capital projects within the Gas ISR program. Almost all of operations work ("OPEX") is done in the field, where the specific asset is located, meaning the work is not performed in a Weld Shop. Of the work that welders perform, approximately 95% is Capital and 5% is OPEX. The Company estimates that less than 5% of the OPEX specific work, or less than 1% of the welders' overall work, could be brought into the Weld Shop versus completing it all in the field. Thus, the Company expects that less than 1% of work to be performed in the Weld Shop will be non-ISR related work.

Division 3-11

Request:

Regarding the proposed Weld Shop please describe:

- (a) The larger welding fabrications in-house the Company anticipates undertaking and provide documentation of these projects; and
- (b) All larger welding fabrications that the Company outsourced within the last three years that the Company could have handled had the Company had the Weld Shop.

Response:

- (a) Fabrication of steel parts for any Gas ISR Plan project, large or small, can be completed in the new facility. The weld shop is currently being designed to have a large enough footprint capable of completing the Company's regulator pits and vault projects. The weld shop would allow internal welders the ability to work on the Company's larger piping within the system. From a practical standpoint, the welders are currently limited to piping under 12-inch-diameter because of the size and weight of the pipe. Thus, welding on larger diameter pipe for projects have not been completed internally because of space limitations. Additionally, projects that require multiple similar pieces have not been completed internally due to space/temporary storage constraints.
- (b) The Company does not have a list of all larger welding fabrications that it has outsourced within the last three years that it could have handled in-house if it had the weld shop. However, an example of those larger fabrications include piping that was prefabricated for the Southern Rhode Island Gas Expansion Project. Additionally, the Company has prefabricated regulator pits and vaults off site utilizing external resources and had them delivered and installed on-site. The welding of CISBOT fittings and large steel fittings for Main Replacement projects could also have been done in-house, instead of being outsourced to contractors. Multimeter header spools are currently contracted out to vendors leading to higher costs because of shipping/handling and the possibility for material wastage due to custom site corrections for each job. The Company anticipates the weld shop will provide in-house resources with a facility that can handle all assets within the system, including the examples provided above.

The Narragansett Electric Company
d/b/a Rhode Island Energy
In Re: Proposed FY 2024 Gas Infrastructure, Safety and Reliability Plan
21-Month Filing: Period April 2023 – December 2024
Responses to the Division’s Third Set of Data Requests
Issued on January 11, 2023

Division 3-12

Request:

Please provide the FY 2023 Gas Infrastructure, Safety, and Reliability Plan Quarterly Update – Third Quarter Ending December 31, 2022.

Response:

Please see the table below which is the Attachment B – Breakout that will be included in the FY 2023 Gas ISR Plan Quarterly Update – for the Third Quarter Ending December 31, 2022. This will be filed with the Public Utilities Commission and the Division of Public Utilities and Carriers on or around February 15, 2023. Attachment B – Breakout provides the fiscal year to date budget versus actual spending and the overall FY 2023 budget versus full year spending forecast.

The Narragansett Electric Company
d/b/a Rhode Island Energy
RIPUC Docket No. 22-54-NG
In Re: Proposed FY 2024 Gas Infrastructure, Safety and Reliability Plan
Attachment DIV 3-12

Attachment B - Breakout

The Narragansett Electric Company
d/b/a Rhode Island Energy - RI Gas
Capital Spending by Investment Categories - Detail
FY 2023 through December 31, 2022
(\$000)

Categories	FYTD			FY 2023 - Total		
	Budget	Actual	Variance	Budget	Forecast	Variance
NON-DISCRETIONARY						
Public Works						
<i>CSC/Public Works - Non-Reimbursable</i>	\$18,151	\$11,825	(\$6,326)	\$20,596	\$14,362	(\$6,234)
<i>CSC/Public Works - Reimbursable</i>	\$1,322	\$1,808	\$485	\$1,437	\$1,937	\$500
<i>CSC/Public Works - Reimbursements</i>	(\$1,089)	(\$2,980)	(\$1,891)	(\$1,433)	(\$4,300)	(\$2,867)
Public Works Total	\$18,384	\$10,652	(\$7,732)	\$20,600	\$11,999	(\$8,601)
Mandated Programs						
<i>Corrosion</i>	\$861	\$1,110	\$248	\$1,305	\$1,305	\$0
<i>Purchase Meter (Replacement)</i>	\$3,936	\$3,520	(\$416)	\$5,248	\$3,935	(\$1,313)
<i>Reactive Leaks (CI Joint Encapsulation/Service Replacement)</i>	\$7,811	\$5,748	(\$2,064)	\$10,100	\$7,600	(\$2,500)
<i>Service Replacement (Reactive) - Non-Leaks/Other</i>	\$3,146	\$1,762	(\$1,384)	\$1,697	\$2,447	\$750
<i>Main Replacement (Reactive) - Maintenance (incl Water Intrusion)</i>	\$925	\$833	(\$92)	\$3,000	\$1,000	(\$2,000)
<i>Low Pressure System Elimination (Proactive)</i>	\$1,700	\$90	(\$1,610)	\$2,000	\$390	(\$1,610)
<i>Transmission Station Integrity</i>	\$2,896	\$100	(\$2,796)	\$4,510	\$180	(\$4,330)
<i>Pipeline Integrity - IVP - Wampanoag Trail Pipeline Replacement</i>	\$350	\$6	(\$344)	\$500	\$80	(\$420)
Mandated Total	\$21,626	\$13,169	(\$8,456)	\$28,360	\$16,937	(\$11,423)
Damage / Failure (Reactive)						
<i>Damage / Failure (Reactive)</i>	\$19	\$12	(\$7)	\$25	\$12	(\$13)
NON-DISCRETIONARY TOTAL	\$40,028	\$23,833	(\$16,195)	\$48,985	\$28,948	(\$20,037)
DISCRETIONARY						
Proactive Main Replacement						
<i>Main Replacement (Proactive) - Leak Prone Pipe</i>	\$69,168	\$72,676	\$3,508	\$75,204	\$81,083	\$5,879
<i>Main Replacement (Proactive) - Large Diameter LPCI Program</i>	\$2,250	\$4,298	\$2,048	\$2,250	\$3,868	\$1,618
<i>Atwells Avenue</i>	\$1,244	\$2,719	\$1,475	\$1,464	\$3,085	\$1,621
Proactive Main Replacement Total	\$72,662	\$79,693	\$7,031	\$78,918	\$88,036	\$9,118
Proactive Service Replacement						
Proactive Service Replacement Total	\$564	\$158	(\$406)	\$600	\$158	(\$442)
Reliability						
<i>System Automation</i>	\$664	\$485	(\$179)	\$800	\$800	\$0
<i>Heater Installation Program</i>	\$968	\$609	(\$359)	\$1,242	\$953	(\$289)
<i>Heater Installation Program - Wampanoag Trail Heaters Replacement and Ownership Transfer</i>	\$4,088	\$4,972	\$884	\$4,349	\$5,135	\$786
<i>Pressure Regulating Facilities</i>	\$6,371	\$4,069	(\$2,303)	\$7,585	\$6,035	(\$1,550)
<i>Allens Ave Multi Station Rebuild</i>	\$0	\$953	\$953	\$0	\$1,085	\$1,085
<i>Take Station Refurbishment</i>	\$840	\$736	(\$104)	\$1,150	\$1,159	\$9
<i>Take Station Enhancement Program -Tiverton GS Ownership Transfer</i>	\$4,257	\$3,673	(\$584)	\$4,529	\$5,423	\$894
<i>Valve Installation/Replacement (incl Storm Hardening & Middletown/Newport)</i>	\$857	\$23	(\$834)	\$988	\$50	(\$938)
<i>Gas System Reliability</i>	\$2,836	\$245	(\$2,591)	\$3,260	\$382	(\$2,878)
<i>I&R - Reactive</i>	\$963	\$1,234	\$271	\$1,375	\$1,375	\$0
<i>Distribution Station Over Pressure Protection</i>	\$2,340	\$2,070	(\$270)	\$3,000	\$2,400	(\$600)
<i>LNG</i>	\$8,259	\$7,970	(\$289)	\$10,089	\$8,716	(\$1,373)
<i>LNG - Portable Equipment Purchase</i>	\$0	\$1,421	\$0	\$0	\$7,000	\$7,000
<i>Replace Pipe on Bridges</i>	\$675	\$169	(\$506)	\$900	\$200	(\$700)
<i>Access Protection Remediation</i>	\$54	\$124	\$69	\$272	\$172	(\$100)
<i>Tools & Equipment</i>	\$705	\$1,309	\$604	\$824	\$1,687	\$863
<i>Weld Shop</i>	\$0	\$0	\$0	\$0	\$3,000	\$3,000
Reliability Total	\$33,879	\$30,062	(\$3,816)	\$40,363	\$45,573	\$5,210
SUBTOTAL DISCRETIONARY (Without Gas Expansion)	\$107,105	\$109,913	\$2,808	\$119,881	\$133,767	\$13,886
Southern RI Gas Expansion Project						
<i>Pipeline</i>	\$520	\$496	(\$24)	\$600	\$540	(\$60)
<i>Other Upgrades/Investments</i>	\$306	\$1	(\$305)	\$396	\$15	(\$381)
<i>Regulator Station Investment</i>	\$5,036	\$3,322	(\$1,714)	\$5,793	\$3,913	(\$1,880)
Southern RI Gas Expansion Project Total	\$5,862	\$3,819	(\$2,044)	\$6,789	\$4,468	(\$2,321)
DISCRETIONARY TOTAL (With Gas Expansion)	\$112,967	\$113,732	\$765	\$126,670	\$138,235	\$11,565
CAPITAL ISR TOTAL (Base Capital - Without Gas Expansion)	\$147,133	\$133,746	(\$13,387)	\$168,866	\$162,714	(\$6,152)
CAPITAL ISR TOTAL (With Gas Expansion)	\$152,995	\$137,565	(\$15,430)	\$175,655	\$167,183	(\$8,472)
Additional Capital Investments (Not currently included in the ISR)						
<i>Aquidneck Island Long Term Capacity Options</i>	\$0	\$39	\$39	\$1,000	\$39	(\$961)
<i>LNG - Cumberland Tank Replacement</i>	\$1,875	\$23	(\$1,852)	\$2,500	\$230	(\$2,270)